tables from simple random sampling design surveys Results Vegetation Comparisons No. of  $\chi^2$  or  $\chi^2 \gamma^a$ Significance

TABLE 94. Comparisons of presence or absence of soil hardpan in the upper 20 cm in four vegetation types by  $\chi^2$  analysis in 2 × 2 contingency

	points			
1. pseudacorus areas (marsh and transition)	39	*4.418	significant at 0.05;	+ 0.59
with similar but any fit and				

· portunition in all the (million and triumothor)	37	7.710	Significant at 0.05,	
with similar but non-Iris areas			Iris associated with hardpan	
Marshes with and without	17	0.004	not significant at 0.1	

with similar but non-tris areas			Iris associated with hardpan	
Marshes with and without	17	0.004	not significant at 0.1	+ 0.03
I. pseudacorus				

The state of the s	**	0.004	not significant at 0.1	1 0.05
1. pseudacorus				
Swamp-marsh transitions with	22	a8.814	significant at 0.005	+ 0.92

Swamp-marsh transitions with	22	a8.814	significant at 0.005	+ 0.92
and without I. pseudacorus			Iris associated with hardpan	

and without I. pseudacorus		Iris associated with hardpan			
Marshes with the swamp-marsh	39	1.042	not significant at 0.1	+	

brtet is tetrachoric coefficient of correlation.

transitions

 $^{a}\chi^{2}_{y}$  is  $\chi^{2}$  with Yates' correction.

<sup>+ 0.27</sup>